

ABSTRACT OF THE DISCLOSURE

An apparatus including an expandable body having dimensions suitable for percutaneous delivery; at least one delivery cannula having a lumen therethrough coupled to an exterior portion of the expandable body; a needle disposed in the lumen of the at least one delivery cannula, the needle including a body portion having a protuberance thereon and a delivery end distal to the protuberance; a stop disposed in the lumen of the at least one delivery cannula at a position distal to the protuberance on the needle, the stop defining a diameter of the lumen less than an outer diameter of the needle at the protuberance. A method including positioning a catheter assembly including at least one needle delivery device disposed in an at least one delivery cannula, the at least one delivery cannula having an exit end; modifying the shape of the catheter assembly to modify the orientation of the exit end of the at least one delivery cannula at a region of interest; and advancing the at least one needle delivery device beyond the exit end of the at least one delivery cannula according to a controlled orientation of the at least one delivery device within the at least one delivery cannula.